

Title (en)

ADAPTIVE RESHAPING FOR LAYERED CODING OF ENHANCED DYNAMIC RANGE SIGNALS

Title (de)

ADAPTIVE UMFORMUNG FÜR SCHICHTKODIERUNG VON SIGNALEN MIT ERWEITERTEM DYNAMIKBEREICH

Title (fr)

DÉFORMATION ADAPTATIVE POUR CODAGE PAR COUCHES DES SIGNAUX AVEC UNE PLAGE DYNAMIQUE AMÉLIORÉE

Publication

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Application

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Abstract (en)

[origin: WO2014204865A1] An encoder receives an input enhanced dynamic range (EDR) image to be coded in a layered representation. Input images may be gamma-coded or perceptually-coded using a bit-depth format not supported by one or more video encoders. The input image is remapped to one or more quantized layers to generate output code words suitable for compression using the available video encoders. Algorithms to determine optimum function parameters for linear and non-linear mapping functions are presented. Given a mapping function, the reverse mapping function may be transmitted to a decoder as a look-up table or it may be approximated using a piecewise polynomial approximation. A polynomial approximation technique for representing reverse-mapping functions and chromaticity translation schemes to reduce color shifts are also presented.

IPC 8 full level

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